

Wood Heaters & Furnaces



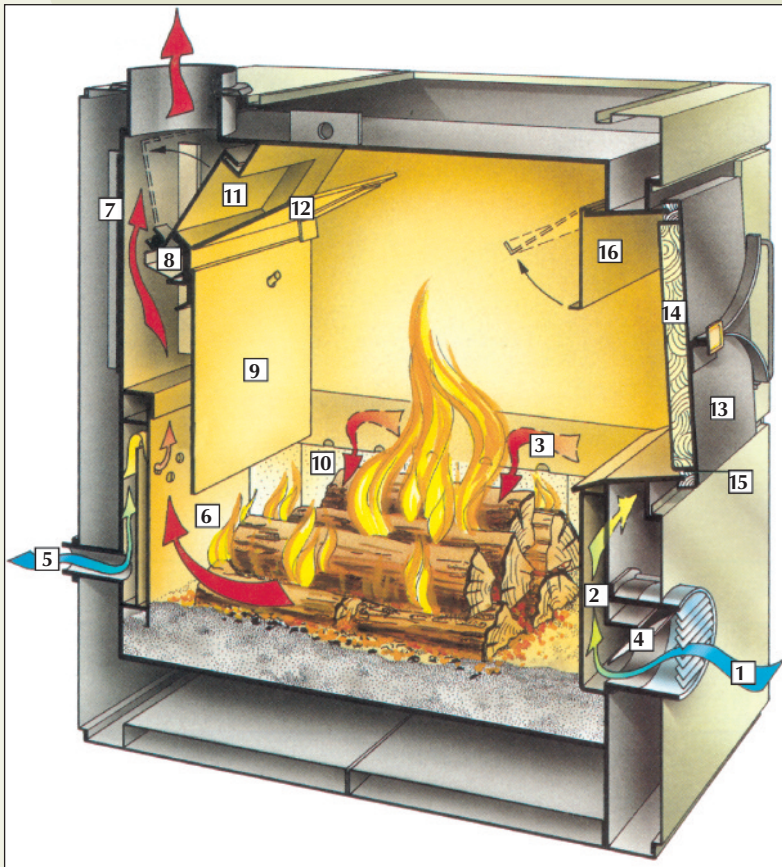
Model F-101

*Load it up with wood,
set the thermostat
and relax*

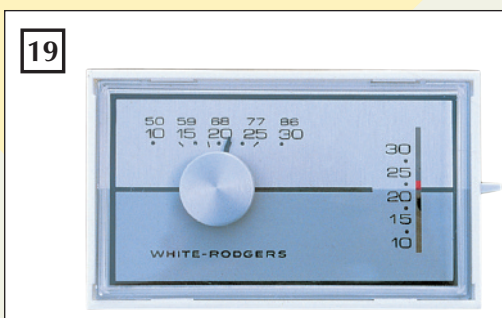
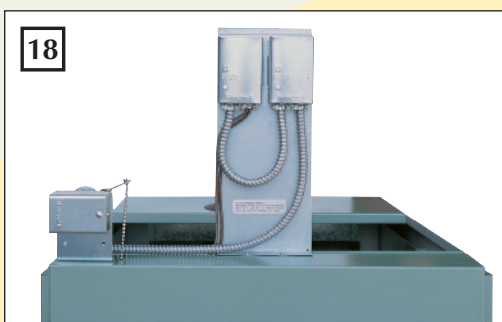


puts a glow in your life!

How a Heater or Furnace Manufactured by Ardent Energy Works



- 1** Primary air burns your wood only when you need heat.
- 2** Primary air heat exchanger preheats cold oxygen for good combustion.
- 3** Cross draft angle measures primary air to the fuel at the right place.
- 4** Butterfly damper for precise primary air control.
- 5** Secondary air provides oxygen for burning gases **behind** the wood.
- 6** Secondary air heat exchanger assures that secondary air is as hot as possible.
- 7** Heat exchange fins direct heat into your room before it goes up the chimney.
- 8** Stainless steel flame deflector channels flames into heat exchange fins.
- 9** Downdraft baffle pushes smoke through the hot coal for more complete combustion and less creosote.
- 10** Firebrick protects your unit and keeps coals burning.
- 11** Bypass damper allows quick warm-up and eliminates smoke out of an open door.
- 12** Scandinavian baffle gives an efficient high burn rate when bypass is open.
- 13** Self-aligning centre-push door for a tight seal whether hot or cold.
- 14** Door insulation protects door from distortion
- 15** High quality door gasket for virtually a maintenance free seal.
- 16** Smoke shield.



Accessories

- 17** Optional water coil replaces firebrick (10).
- 18** Thermostat control kit can be wired to any existing furnace
- 19** A wall thermostat provides precise heat control
- 20** Shovel and poker provided – standard on all models (not shown)
- 21** Circulating blower available for all models (not shown)

Efficiency in a wood burning heater or furnace goes into every smart looking home heater and furnace built by the engineers at Ardent Energy.

When you choose a heater or furnace built by Ardent Energy engineers, you're putting to work the ultimate of woodburn science. Features have been tested and refined by Hans Duerichen, a mechanical engineer from Smithers, BC, who has specialized in wood-waste burning and pollution control. Mr. Duerichen and his designers have spent their priority time designing the inside of their stoves.

Ardent Energy's heaters and furnaces are able to burn one load of wood for 8 to 36 hours and control the temperature in your home to within one degree.

The result is better than just good looks. The result is plain efficiency.

Begin by loading wood in the stove. The door, wide and tightfitting, is perfect for large diameter wood pieces. Even before the wood ignites, air that will reach the firebrick compartment is being pre-heated. Hot air is fed down to the main flame where a simple, yet ingenious system called a progressive cross-draft, directs more air to the fire if the temperature in the room drops. Wood at the top can dry and settle to the heart of your Ardent Energy system.

By actually feeding itself, your fire burns slowly and evenly with just the right amount of air it needs.

By not having the bother of constantly feeding and caring for your fire, you may wonder if you are increasing the amount of creosote and waste that escapes. (To a serious wood burner, that's like throwing money away!)

For this reason Ardent Energy heaters have the main escape route to the chimney closed during normal burning. Wood smoke is forced downward over hot coals and into a secondary combustion chamber. Add jets of super-heated air through tiny holes and remaining gases have even more heat squeezed out and saved for your comfort.



Model F-75R

It's heater design that puts a glow in your life and provides these great benefits.

- **Ardent Energy heaters are easy to use.** You'll be amazed at the size of wood-pieces your new heater takes. Load up and carry on with your day. Inside, better combustion means less ash and less cleaning.
- **Ardent Energy heaters precisely radiate warmth, ending wasteful overheating.** An optional electric wall thermostat with your Ardent Energy heater will keep your home temperature accurate to within one degree of thermostat setting. Just set the dial.
- **Ardent Energy heaters are adaptable.** Add a blower to circulate warmth immediately around your unit or add a water coil to heat your hot water (Ardent Energy is the only stove and furnace manufacturer to have its own listed water coils).

Now if your choice is an Ardent Energy heavy duty furnace, relax knowing that:

- **Ardent Energy engineers have made it easy for installation.** A two-inch plenum clearance above your furnace makes the add-on very easy. Install your Ardent Energy furnace with a circulating blower and use it as a wood-only unit or marry your existing unit (gas, oil or electric) to your new Ardent Energy woodburn furnace. The thermostat control kit includes a simple universal wiring harness for easily connecting to your existing furnace. Now you have real control over the woodburn warmth of your house.
- **Ardent Energy Furnaces are built tough.** Heavy gauge components assure durability and minimal heat distortion. a self-aligning centre-push door stays leakproof for a lifetime, so no unwanted air makes your furnace too hot.

When you buy your Ardent Energy unit, you also buy a comprehensive warranty, which includes the benefits of a three-point quality control system and an investment that is Warnock Hersey tested to meet and exceed Federal, Provincial and State requirements.

Ardent Energy has the home heater or furnace to give you complete control – basement to top floor – to specifically meet your needs.

Choose one of the models in this brochure. It will be a good choice. A choice that will put a glow in your life.



Ardent Energy Furnace Specifications

Model F-75R

Rating (BTU/hr)	5,000 to 75,000
Size	28" x 38" x 43" h
Weight	476 lbs
Fuel capacity	5 cu ft
Maximum Fuel size	10" Diameter x 20" Long
Flue Outlet	7" Diameter
Cold Air Inlet Size	12" x 18"
Hot Air Outlet Size	18" x 26 3/4"
Oil Input Range	0.65 to 1.00 USGPM
Gas Output Range	64,000 to 98,000 BTU/hr
Electric Output Range	10 KW to 25 KW
Shipping Dimensions	33 1/2"W x 44"D x 48"H
Shipping Weight	520 lbs



Model F-101 (shown on cover)

Rating (BTU/hr)	5,000 to 100,000
Size	30" x 45" x 46 1/2" h
Weight	594 lbs
Fuel capacity	9 cu ft
Maximum Fuel size	12" Diameter x 24" Long
Flue Outlet	8" Diameter
Cold Air Inlet Size	12" x 18"
Hot Air Outlet Size	24 1/2" x 28 3/4"
Oil Output Range	0.85 to 1.25 USGPM
Gas Output Range	76,000 to 123,000 BTU/hr
Electric Output Range	10 KW to 35 KW
Shipping Dimensions	34 1/2"W x 55 1/2"D x 52"H
Shipping Weight	654 lbs

Ardent Energy Heater Specifications

Model HF-65R

Heating Capacity, up to	2,000 sq ft
Rating (BTU/hr)	5,000 to 65,000
Size	24" x 38" x 34" h
Weight	475 lbs
Fuel capacity	5 cu ft
Maximum Fuel size	10" Diameter x 20" Long
Flue Outlet	7" Diameter
Min Installation Clearance	Standard Home 14"
Shipping Dimensions	26 1/2"W x 42 1/2"D x 40 1/2"H
Shipping Weight	521 lbs



Model HF-85R

Heating Capacity, up to	3,000 sq ft
Rating (BTU/hr)	5,000 to 85,000
Size	27 1/4" x 40" x 38" h
Weight	570 lbs
Fuel capacity	8 1/2 cu ft
Maximum Fuel size	12" Diameter x 24" Long
Flue Outlet	8" Diameter
Min Installation Clearance	Standard Home 12"
Shipping Dimensions	30"W x 45"D x 44 1/2"H
Shipping Weight	630 lbs



Dealer/Distributor

Manufactured by
MACO ENTERPRISES INC.
7806 Sixth Line, Drayton ON
Canada N0G 1P0